INTELLIGENT TRANSPORTATION SYSTEMS (ITS) TECHNICIAN

DISTINGUISHING FEATURES

The fundamental reason the ITS Technician exists is to maintain, monitor, and assist development of various ITS infrastructure and interfaces used by the Traffic Engineering Division in the Transportation Department. This classification does not supervise. Work is performed under general supervision by the Traffic Engineering Director. The ITS Technician is distinguished from the ITS Analyst by the former focusing their efforts on the maintenance and monitoring of the fiber optic, wiring, and equipment utilized for this program.

ESSENTIAL FUNCTIONS

Maintains, monitors, and helps develop current and future ITS infrastructures and interfaces such as: computerized traffic signal central control systems; adaptive and responsive signal timing and control methodologies; traffic monitoring cameras; various vehicle detection technologies; telephonic, fiber optic, and microwave communications systems and devices; video switching and compression devices; variable message signs; and type 170 signal controllers.

Assists in the monitoring and refinement of traffic signal timing plans based on real-time traffic monitoring data and field observations. May assist emergency services with traffic control by altering traffic signal operations as conditions dictate.

Alerts the driving public of congestion causing incidents by means of variable message signs and other telematic technologies as they become available.

Uses all available ITS resources to deliver superior transportation services to save taxpayers time and money.

Conducts in-field observations to test traffic signal timing programs and make travel time studies.

Works with Traffic Signal Technicians to assist in installing traffic signal and other ITS equipment and to solve difficulties.

Listens, investigates and responds to citizen complaints or inquiries regarding ITS operations in a timely manner.

MINIMUM QUALIFICATIONS

Knowledge, Skills, and Abilities

Knowledge of:

Traffic engineering principles, practices and procedures;

Telecommunications operations;

Current ITS theories and practices;

NTCIP architecture;

Computerized traffic signal system operations;

Different systems and methods for traffic signal timing including adaptive and responsive systems; and

Microsoft Office software.

Ability to:

Read and interpret blueprints and schematic drawings;

Evaluate technical specifications;

Establish and maintain effective working relationships with co-workers, supervisors, other city staff, consultants, and the general public;

Operate a computer and a variety of office equipment using continuous and repetitive arm, hand and eye coordination;

Produce written documents with clearly organized thoughts using proper sentence construction, punctuation and grammar;

Visually distinguish the full color spectrum;

Conduct field observations, tests, installations, and repairs;

Comprehend and make inferences from written and verbal information; and

Maintains regular and consistent attendance.

Education & Experience

Any combination of education and experience equivalent to a certification from an accredited technical college in engineering, electronics, telecommunications, computer science or a related field and a minimum of 4 years experience with ITS or related systems. Must possess and maintain a valid Arizona driver's license with no major citations in the past 39 months.

FLSA Status: Non-exempt HR Ordinance Status: Classified